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water being the mineral chiefly referred to for the sake of illustration, and (B) living bodies. Under the latter head the wheat plant and the substances of which it is composed, the common fowl and the substances of which it is composed, are described in the compass of three pages; then the constituents of the body common to the wheat plant and the fowl. What is meant by the word living, and how the living plant comports itself, and how the living animal grows, and how living bodies differ from mineral bodies is told in a few clear, simple sentences. Finally the science of biology and its subdivisions, botany and zoölogy, are defined, and a final page or two is devoted to mental phenomena and the definition of psychology.

EMERTON'S SEASIDE COLLECTING.¹—In England and France popular works on the animals of the seashore, and the names of Gosse, Forbes, Kingsley and Quatrefages are associated with some of the most entertaining books that have ever been written. America, on the other hand, has been woefully deficient in works of this character. The only ones which approach it being Mrs. Agassiz's *Seaside Studies*, Verrill and Smith's *Invertebrata of Vineyard sound*, and the charming little work of "Actæa." In the present volume Mr. Emerton has given us a well illustrated account of the common marine forms of invertebrates with the methods of collecting them. The work is written in Mr. Emerton's straightforward manner, and from a literary point of view is superior to his well-known volume on spiders. A fair proportion of the 161 figures which illustrate the book are new, while the remainder have not been copied often enough to render them at all hackneyed. The pictures of *Lophothuria fabricii* and *Pentacta frondosa* are possibly the best. Here we would remark that the genera *Callinectes*, *Lophothuria* and *Leptosynapta* seem founded on decidedly insufficient grounds, and should be replaced by *Neptunus*, *Peolus* and *Synapta*. The book is well printed on good paper and forms a very handy volume for all seaside visitors, and would prove especially valuable to the many who throng our watering places and who wish to know something of marine life.

It might not come amiss to add here that this is the first volume published by Mr. Bates, the successor to Mr. Cassino in the Naturalist's Bureau at Salem, Mass., and that it reflects great credit on the publisher.—J. S. K.

ZITTEL'S PALÆONTOLOGY.²—The third part of Vol. I of this important work especially commends itself to American palæontologists, since it continues and completes the elaborate account of

¹ *Life on the Seashore, or Animals of our Coasts and Bays.* By JAMES H. EMERTON. 8vo, pp. xx and 143. Salem, George A. Bates, 1880.

² *Handbuch der Palæontology.* Unter mitwirkung von W. PH. SCHIMPER. Herausgegeben von Karl A. Zittel. I Band, III Lieferung, mit 195 original holzschnitten. München, 1879, 8vo.